



Pilot Project to Inject CO₂ for Enhanced Oil Recovery & CO₂ Storage

Project type	CO ₂ pilot injection
Project proponent	Husky Oil Operations Ltd.
CO₂ source	Husky facility, which includes an ethanol plant adjacent to its heavy oil upgrader in Lloydminster, Saskatchewan
Capture application	Oil and gas
CO₂ storage type	Enhanced oil recovery in shallow, thin heavy oil reservoirs
CO₂ stored	Up to 100 kilotonnes per year
Start date for storage	2011
Project timeframe	2009 to 2012
Project location	Lloydminster, Saskatchewan, Canada
Funding	
Government of Canada	\$14.1 million
Private sector	\$53.6 million
Total project cost	\$67.7 million

Project description

This project will focus on targeted research and the development of a new approach in heavy oil extraction in thin heavy oil reservoirs by using injected CO₂ that could be permanently stored in the reservoirs. CO₂ will be captured from Husky's ethanol plant adjacent to its heavy oil upgrader, then transported and injected into heavy oil reservoirs located nearby to enhance oil recovery. This project could eventually lead to the capture of up to 300 000 tonnes of CO₂ per year from the Husky ethanol plant and upgrader by purifying, dehydrating, compressing and transporting the CO₂ to heavy oil reservoirs in the Lloydminster area.

Expected outcomes

The project will develop new knowledge and methods for enhanced oil recovery (EOR) in heavy oil reservoirs. Because of the shallowness and thinness of such reservoirs compared with ones for conventional oil, they have not been used for CO₂ storage in the past. This project is expected to advance the industry in this area. Given the relatively large heavy oil resource in Saskatchewan and Alberta, it is hoped that in the future, such reservoirs could be used to permanently store large quantities of CO₂.

Proponent profile

Headquartered in Calgary, Alberta, Husky Energy Inc. is one of Canada's largest energy companies, with approximately 4100 employees. Husky owns a portfolio of fossil fuel-producing properties across Canada and Asia. Production ranges from shorter-term shallow oil and gas production in eastern Alberta to longer-life, deep oil and gas production in western Alberta, northeastern British Columbia and southwestern Saskatchewan as well as the East Coast of Canada. Husky also has significant holdings in the Alberta oil sands.

Proponent Web site

www.huskyenergy.ca

